



-31-

METHODS AND STRUCTURES EMPLOYING  
CHEMICALLY-LABELED POLYNUCLEOTIDE PROBES

ABSTRACT OF THE DISCLOSURE

Polynucleotide sequences in a sample of biological or nonbiological material are detected by a method involving fixing of the sequences on a solid support and forming an entity between the fixed sequences and chemically-labeled polynucleotide or oligonucleotide probes having a sequence complementary to the fixed sequence for determining the identification and/or presence of the target polynucleotide sequences. The chemical label covalently or non-covalently attached to the probe comprises a signaling moiety capable of generating a soluble signal detectable by spectrophotometric assay techniques.